CLAIMS

What is claimed is:

- 1. An insert for use in the fabrication of a watercraft hull to form an inboard/outboard propulsion system passageway by the hull being formed around the insert and subsequent removal of the insert from the hull to expose the passageway, comprising:
 - a semi-rigid body having a tapered sidewall with opposed sections and a base surface, and an perimeter lip formed at the intersection of the base surface and the sidewalls.
- 2. The insert of claim 1, wherein the semi-rigid body is formed of a material selected from the group consisting of polyurea, polyurethane and a polyurea/polyurethane compound.
- 3. The insert of claim 1, wherein the tapered sidewall opposed sections comprise a first set of opposed tapered sections each having a base edge at the perimeter lip generally parallel with one another, and a second set of opposed tapered sections interconnecting the first set of opposed tapered sections.
- 4. The insert of claim 1, wherein the semi-rigid body is formed with one or more voids into which a tool may be inserted to facilitate manipulation of the position of the body with respect to watercraft hull to form the passageway.
- 5. The insert of claim 4, wherein the base surface comprises an outboard surface, and wherein the one or more voids comprise through-holes extending from the outboard surface of the semi-rigid body to an inboard surface of the semi-rigid body.

- 6. The insert of claim 1, wherein the tapered sidewall tapers continuously from the perimeter lip in a direction away from the base surface.
- 7. The insert of claim 1, wherein the semi-rigid body has a shore D hardness value of less than about 90.
- 8. The insert of claim 7, wherein the semi-rigid body has a shore A hardness value of greater than about 65.
- 9. The insert of claim 1, wherein the semi-rigid body is formed of a more rigid material in a central region thereof and a less rigid material in a perimeter region thereof encompassing the tapered sidewall and the perimeter lip.
- 10. An insert configured to form an inboard/outboard propulsion system passageway in a boat hull, comprising a semi-rigid body having an inboard surface, an outboard surface and a sidewall spanning between the inboard and outboard surface, wherein the body has a shore D hardness value of less than about 90 and a shore A hardness value of greater than about 65.
- 11. The insert of claim 10, wherein the semi-rigid body is formed of a material selected from the group consisting of polyurea, polyurethane and a polyurea/polyurethane compound.
- 12. The insert of claim 10, further comprising a perimeter lip extending from the intersection of the sidewall and the outboard surface.

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- 13. The insert of claim 12, wherein the semi-rigid body is formed of a more rigid material in a central region thereof and a less rigid material in a perimeter region thereof encompassing the sidewall and the perimeter lip.
- 14. The insert of claim 10, wherein the semi-rigid body is formed with one or more through-holes extending from the inboard surface to the outboard surface and into which a tool may be inserted to facilitate manipulation of the position of the body with respect to hull to form the passageway.
- 15. A process for fabricating a watercraft hull with an inboard/outboard propulsion system passageway, comprising:

providing an insert as a semi-rigid body having an inboard surface, an outboard surface, and a sidewall spanning between the inboard and outboard surface; attaching the insert to a surface of a molding tool, the surface configured to shape an outermost surface of the watercraft hull; applying a gel coat to the insert inboard surface and sidewall, and to the molding tool surface, the gel coat forming the outermost surface of the watercraft hull; applying one or more laminate layers over the outermost surface of the watercraft hull and around the sidewall of the insert; curing the laminate layers to form a finished watercraft hull; demolding the finished watercraft hull from the molding tool surface; and removing the insert from the watercraft hull to expose the inboard/outboard propulsion system passageway of the hull.

- 16. The process of claim 15, wherein the semi-rigid body is formed with one or more voids extending into the inboard surface into which a tool may be inserted to facilitate removal of the insert from the watercraft hull upon completion of the building of the material layers of the hull.
- 17. The process of claim 15, wherein the semi-rigid body is formed of a material selected from the group consisting of polyurea, polyurethane and a polyurea/polyurethane compound.
- 18. The process of claim 15, wherein the semi-rigid body is formed with a perimeter lip extending from the intersection of sidewall and the outboard surface.
- 19. The process of claim 18, wherein the sidewall tapers continuously from the perimeter lip towards the inboard surface.
- 20. The process of claim 18, wherein the semi-rigid body is formed of a more rigid material in a central region thereof and a less rigid material in a perimeter region thereof encompassing the sidewall and the perimeter lip.
- 21. The process of claim 15, further comprising the step of applying a release agent to the molding tool surface prior to attaching the insert thereto.
- 22. The process of claim 15, wherein the one or more laminate layers includes a fiber material in a liquid resin matrix and a core layer.

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